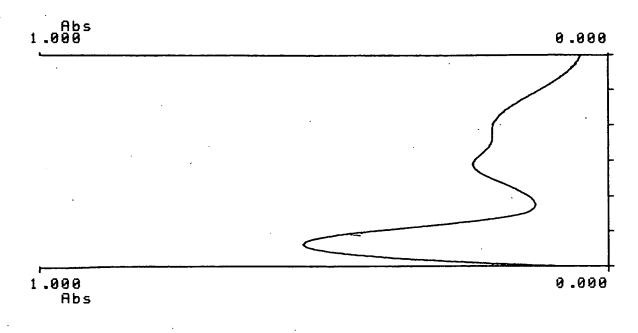
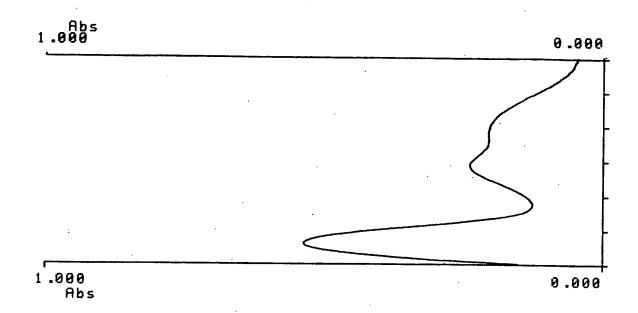
Figure 1. The UV spectrum of tetrodotoxin injection (990120-1A) identification



10: 0 AM **/32/** TITLE: SCAN SPEED: RESPONSE: MEDIUM 120.0 nm/min BANDPASS: 2.00nm NO. VALLEY 0.2364 Abs 255.1 nm 0.1247 Abs

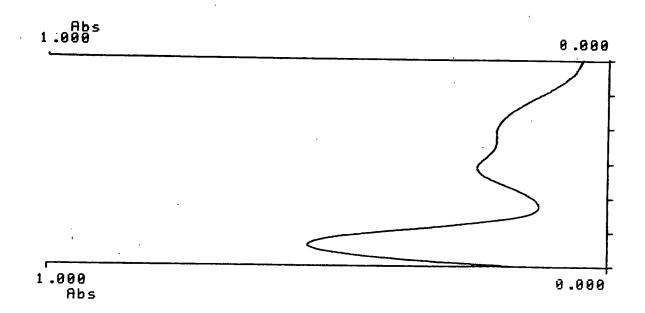
1 2 277.1 nm 232.3 nm 0.5380 Abs

Figure 2. The UV spectrum of Tetrodotoxin injection (990121-2A) identification



TITLE: 10: 0 AM **/32/** SCAN. SPEED: 120.0 nm/min RESPONSE: MEDIUM BANDPASS: 2.00nm NO. PEAK VALLEY 1 277.6 nm 0.2357 Abs 255.6 nm 0.1243 Abs 2 232.8 nm 0.5365 Abs

Figure 3. The UV spectrum of Tetrodotoxin injection (990122-3A) identification.

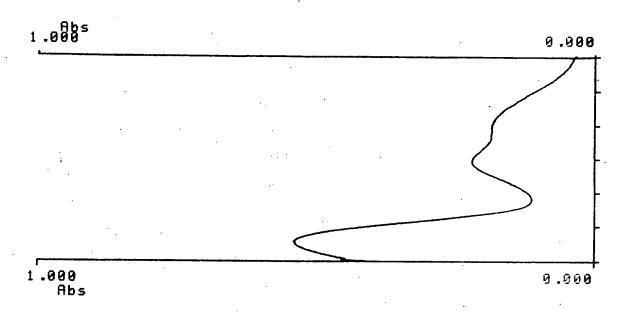


TITLE: 10: 0 AM **/32/**
SCAN SPEED: 120.0 nm/min RESPONSE: MEDIUM
BANDPASS: 2.00nm

NO. PEAK UALLEY
1 277.0 nm 0.2355 Abs 254.2 nm 0.1240 Abs
2 232.0 nm 0.5364 Abs

. . .

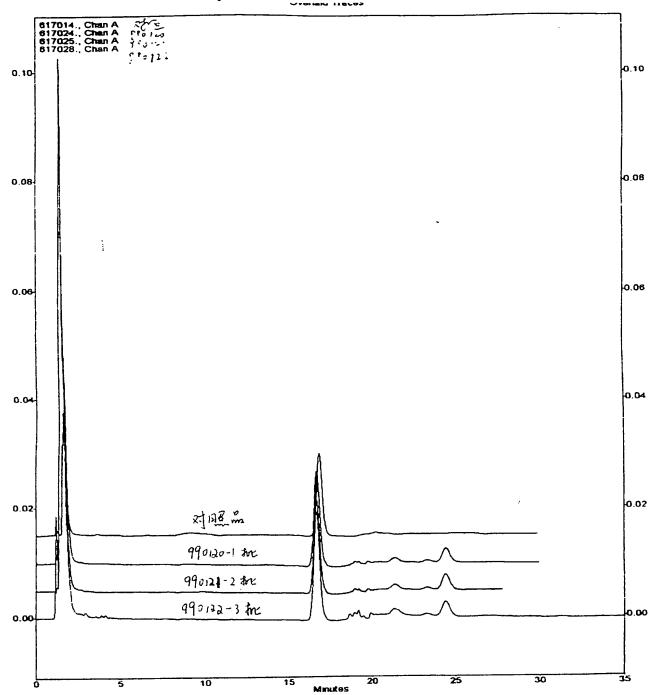
Figure 4. The UV spectrum of the Tetrodotoxin control sample (S-1) identification.



TITLE: 10: 0 AM **/32/**
SCAN SPEED: 120.0 nm/min RESPONSE: MEDIUM
BANDPASS: 2.00nm

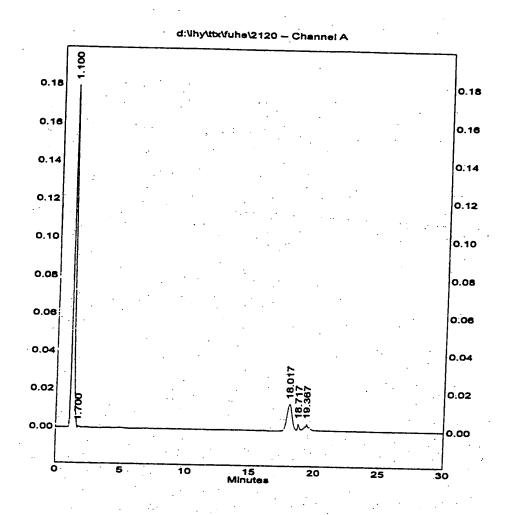
NO. PEAK VALLEY
1 277.5 nm 0.2174 Abs 255.7 nm 0.1120 Abs
2 230.8 nm 0.5393 Abs

Figure 5. The chromatogram of the retention time of the three batches of tetrodotoxin and its control sample.



Control sample
Batch number 990120-1A
Batch number 990121-2A
Batch number 990122-3A

Figure 6. The HPLC chromatogram of content determination of tetrodotoxin injection (990120-1A).

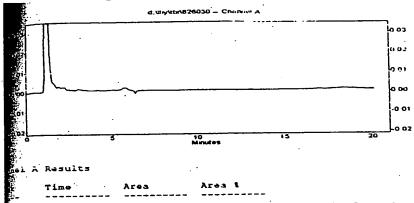


Channel A Results

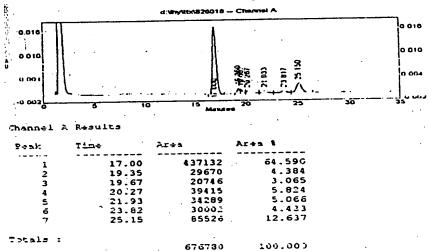
Peak	Time	Area	Area %
1 2 3 4 5	1.10 1.70 18.02 18.72 19.37	2044956 10066 383153 30817 80869	80.199 0.395 15.026 1.209 3.172
Totals :		•	

2549861 100.000

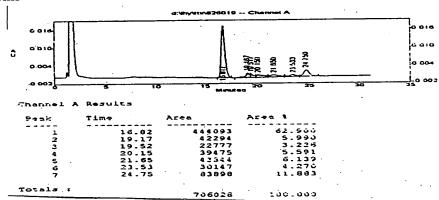
Figure 7. HPLC Chromatogram of the recovery test of Tetrodotoxin injection.



Solution A: Blank solution without tetrodotoxin prepared as the formula.

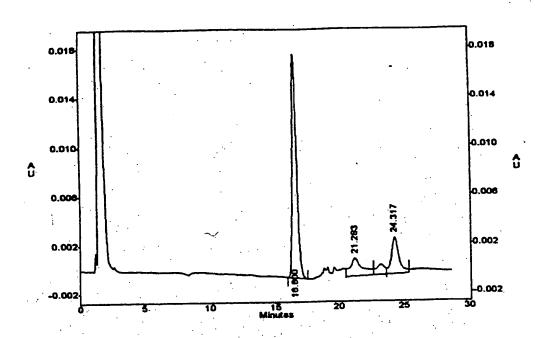


Solution C: The 0.2% acetic acid solution containing the primary pharmaceutical tetrodotoxin



Solution D: Solution A containing the primary pharmaceutical tetrodotoxin

Figure 8. Day 0 chromatogram of TTX injection samples (Batch 990120-1A).

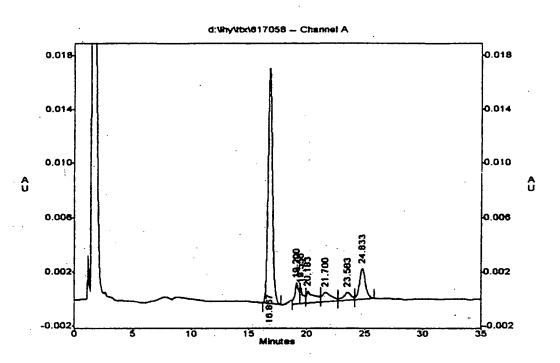


Channel A Results

Peak	Time	Area	Area &
1	16.60	457304	67.543
2	21.28	96642	14.274
3	24.32	123111	18.183

Totals :

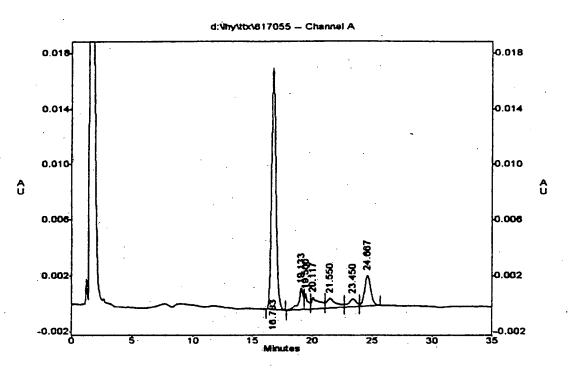
Figure 9. Day 5 chromatogram of TTX injection samples (Batch 990120-1A) exposed to fluorescence light



Channel A Results

Peak	Time	Area	Area %
1	16.87	439230	64.337
2 ·	19.20	33194	4.862
3	19.55	21996	3.222
4	20.18	41813	6.125
5	21.70	38117	5.583
6	23.58	26835	3.931
7	24.83	81513	11.940

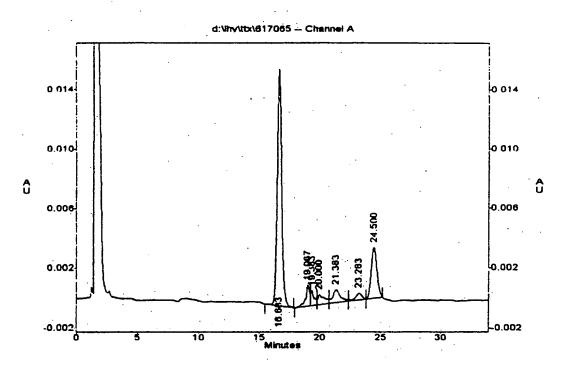
Figure 10. Day 10 chromatogram of TTX injection samples (Batch 990120-1A) exposed to fluorescence light



Channel A Results

Peak	Time	Area	Area %
1	16.78	440996	64.617
2	19.13	40110	5.877
3	19.50	21413	3.138
4	20.12	38546	5.648
5	21.55	38558	5.650
6	23.45	25316	3.709
7	24.67	77538	11.361

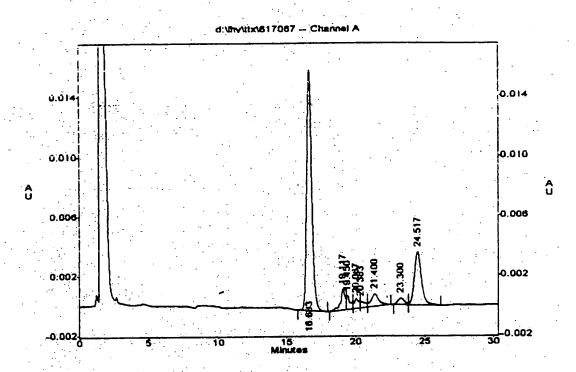
Figure 11. Day 5 chromatogram of TTX injection samples (Batch 990120-1A) stored at 40°C



Channel A Results

Peak	Time	Area	Area %
1	16.68	403338	62.647
2	19.07	31695	4.923
3	19.38	18661	2.898
. 4	20.00	. 26281	4.082
5 .	21.38	37923	5.890
6	23.28	16412	2.549
7	24.50	109512	17.010

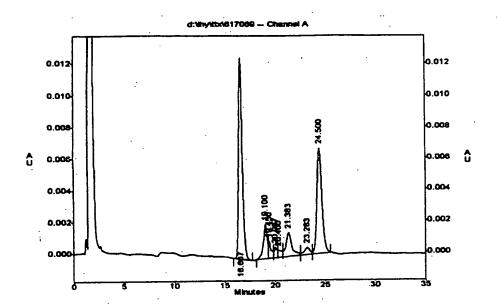
Figure 12. Day 10 chromatogram of TTX injection samples (Batch 990120-1A) stored at 40°C



Channel A Results

Peak	Time	Area	Area 8
1	16.68	406902	62.061
<u>.</u>	19.12	31196	4.757
<u> </u>	19.45	16802	2.563
4	20.07	14841	2.264
5	20.38	10273	1.567
5	21.40	32718	4.990
	23.30	14349	2.265
š	24.52	128073	19.534
Totals :		CE E CA A	100 000

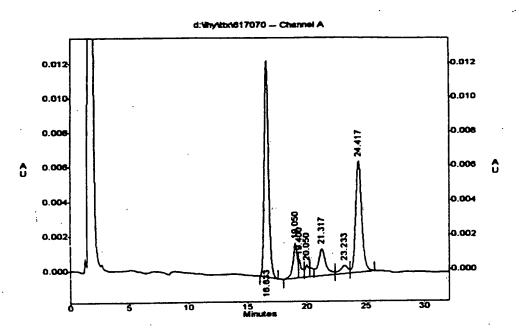
Figure 13. Day 5 chromatogram of TTX injection samples (Batch 990120-1A) stored at 60°C



Channel A Results

Peak	Time	Area	Area %
1	16.67	320463	43.726
2	19.10	55618	7.589
3	19.45	20052	2.736
4	20.07	13250	1.808
5	20.40	13195	1.800
6	21.38	62082	8.471
7	23.28	17525	2.391
8	24.50	230698	31.478

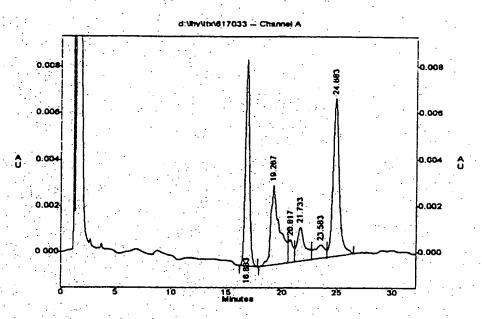
Figure 14. Day 10 chromatogram of TTX injection samples (Batch 990120-1A) stored at 60°C



Channel A Results

Peak	Time	Area	Area %
	16.63	312079	43.881
1	10.03		
2	19.05	49723	6.992
3	19.40	20080	2.823
4	20.05	15408	2.167
5	21.32	67030	9.425
6	23.23	21349	3.002
7	24.42	225521	31.710

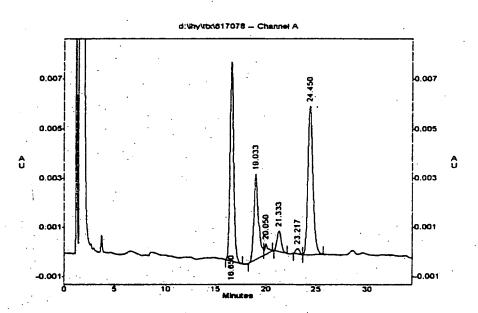
Figure 15. Day 5 chromatogram of TTX injection samples (Batch 990120-1A) stored at 80°C



Channel A Results

Peak	Time	Area	Area %
1	16.88	225642	27.595
2	19.27	189762	23.207
3	20.82	29663	3.628
4	21.73	75156	9.191
5	23.58	37486	4.584
. 6	24.88	259987	31.795

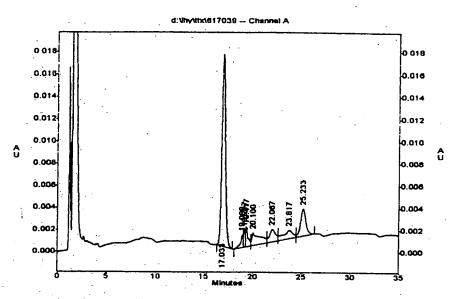
Figure 16. Day 10 chromatogram of TTX injection samples (Batch 990120-1A) stored at 80°C



Channel A Results

Peak	Time	Area	Area %
1	16.65	201979	36.363
2	19.03	106755	19.220
3	20.05	9113	1.641
.4	21.33	24854	4.475
5	23.22	5678	1.022
6	24.45	207069	37.280
Totals :			٠.
	•	555448	100,000

Figure 17. Day 5 chromatogram of TTX injection samples (Batch 990120-1A) stored at the humidity of 75%

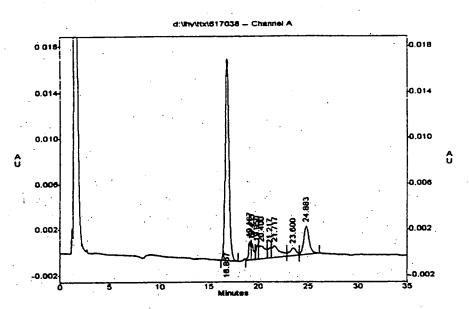


Channel A Results

Peak	Time	Area	Area %
1	17.03	440743	57.272
2	19.00	19869	2.582
<u>,</u> 3	19.22	16741	2.175
4	19.42	.30163	3.920
5	20.10	65769	8.546
6	22.07	50126	6.514
. 7	23.82	52224	6.796
8	25.23	93927	12.205

Totals :

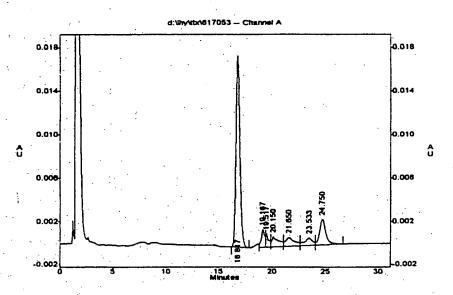
Figure 18. Day 10 chromatogram of TTX injection samples (Batch 990120-1A) stored at the humidity of 75%



Channel A Results

Peak	Time	Area	Area %
			:
1	16.87	447357	58.043
2	19.17	25793	3.347
3	19.43	23024	2.987
4	19.95	20972	2.721
.5	20.40	50791	6.590
Ġ	21.22	21996	2.854
7.	21.72	56974	7.392
. 8	23.60	31567	4.096
9	24.88	92256	11.970
Totals :	•		
		770730	100 000

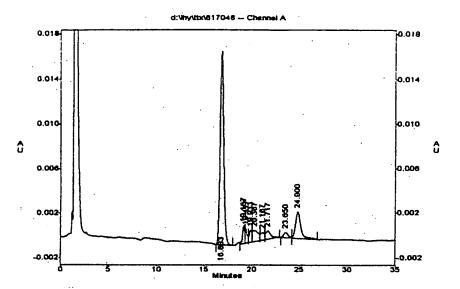
Figure 19. Day 5 chromatogram of TTX injection samples (Batch 990120-1A)stored at the humidity of 92.5%



Channel A Results

Peak	Time	Area	Area %
1	16.82	447441	61.629
2	19.17	34832	4.798
3	19.52	23418	3.226
4	20.15	41630	5.734
5	21.65	47836	6.589
6	23.53	35696	4.917
7	24.75	95165	13.108

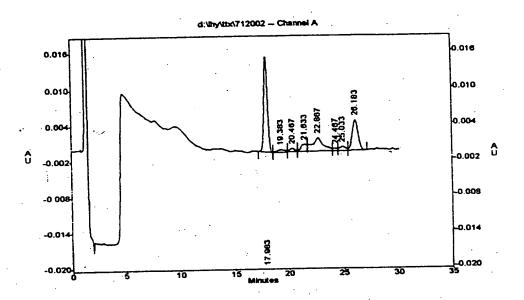
Figure 20. Day 10 chromatogram of TTX injection samples (Batch 990120-1A) stored at the humidity of 92.5%



Channel A Results

Peak	Time	Area	Area %
1	16.88	439985	62.732
. 2	19.17	24726	3.525
3	19.42	20133	2.871
4	19.93	18443	2.630
5	20.37	43002	6.131
.6	21.17	18768	2.676
7	-21.72	29564	4.215
8	23.65	14957	2.133
·9	24.90	91798	13.088

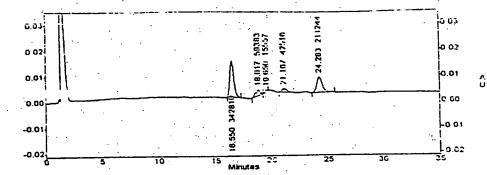
Figure 21. Month 1 chromatogram of TTX injection samples (Batch 990120-1A) in acceleration test at 40°C



Channel A Results

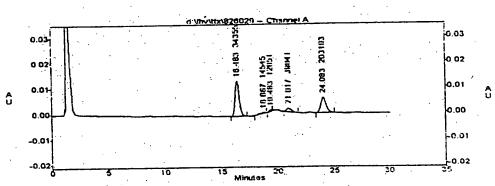
Peak	Time	Area	Area %
1	17.98	376984	44.357
2	19.38	21365	2.514
2	20.47	22100	2.600
3	21.63	46498	5.471
- 4		157085	18.483
5	22.87		
6	24.47	12261	1.443
7	25.03	28093	3.306
8	26.18	185497	21.826
	*		•

Figure 22. Month 2 chromatogram of TTX injection samples (Batch 990120-1A) in acceleration test at 40°C



Channel A Results

Feak	Time	Area	Area 🐧
1: 2 3 4 5	16.55 18.92 19.65 21.17 24.28	342810 59383 15557 42516 211244	51.051 2.343 2.317 6.331 31.458
Totals:		· ;	

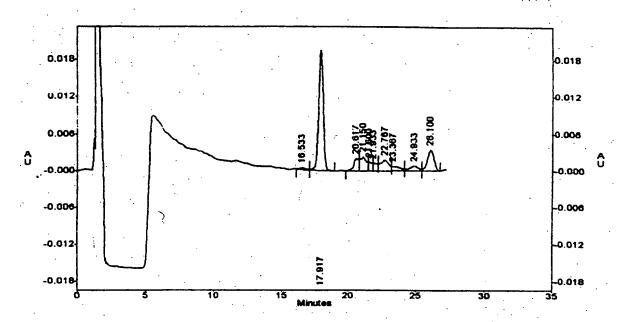


Channel A Results

Peak	Time	Area	Area
		343552	55.946
. 1	16.49 18.87	14545	2.369
3	19.48	12851	E.393
4	11.02	39941	€.504
. 8	24,09	203193	13.069

G14082 100.000

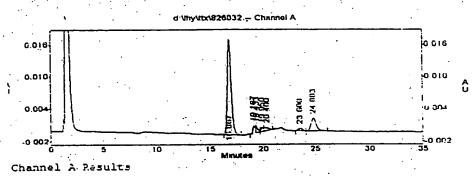
Figure 23. Month 1 chromatogram of TTX injection samples (Batch 990120-1A) stored at 4-5°C



Channel A Results

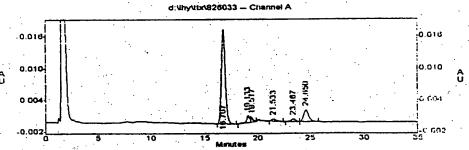
Peak	Time	Area	Area &
1	16.53	12642	1.366
2	17.92	469198	50.691
3	20.62	53889	5.822
4	21.15	78215	8.450
5	21.60	28459	. 3.075
6	21.93	27149	2.933
7	22.77	75205	8.125
8	23.37	32292	3.489
` 9	24.93	38038	4.110
10	26.10	110521	11.940

Figure 24 Month 3 chromatogram of TTX injection samples (Batch 990120-1A) stored at 4-5°C*



Feak	Time	Area	Area \$
1	16.87	446937	73.393
. 2	19.17	19824	3.255
; 3	19.43	15306	2.513
4	19.95	11884	1.952
5	20.40	18910	3.105
6	23.60	13018	2.138
7	24.88	83086	13.644
	•		

508965 100.00



Channe					
	* 1	~	P. et	= u .	

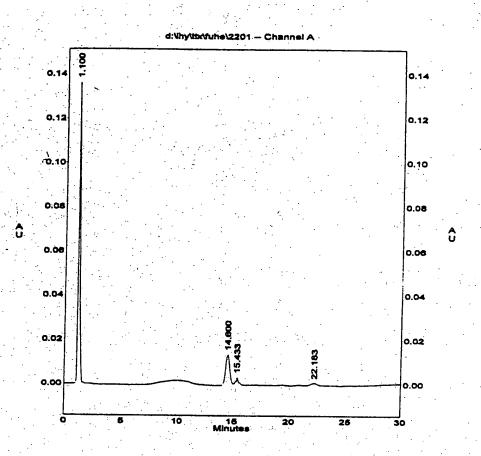
294%	71	Ares	Area 4
ì	16.77	447336	75.939
. 2	19.13	28063	4.75
. 3	19.52	10316	1.751
. 4	21.53	10525	1.787
5	23.47	15642	2.609
6	24,65	76989	13.070

Totals :

589071

100.000

Figure 25. Month 6 chromatogram of TTX injection samples (Batch 990120-1A) stored at 4-5°C



Channel A	A Kesuits		
Peak	Time	Area	Area \$
1 2 3 4	1,10 14,60 15,43 22,18	1329668 369604 67516 40001	73.593 20.456 3.737 2.214
Totals :			

100.000